## What is claimed is:

1	1.	A nucleic acid molecule encoding a fusion protein comprising:							
2		(a) a signal sequence;							
3		(b) an immunoglobulin Fc region; and							
4		(c) a target protein sequence comprising interferon-alpha,							
5	where	in the signal sequence, the immunoglobulin Fc region and the target protein							
6	sequence are encoded serially in a 5' to 3' direction.								
1	2.	The nucleic acid of claim 1 wherein the immunoglobulin Fc region							
2	comprises an	immunoglobulin hinge region.							
l	3.	The nucleic acid of claim 1 wherein the immunoglobulin Fc region							
2	comprises an	immunoglobulin hinge region and an immunoglobulin heavy chain constant							
3	region domai	n.							
1	4.	The nucleic acid of claim 1 wherein the immunoglobulin Fc region							
2	comprises an	immunoglobulin hinge region and an immunoglobulin CH3 domain.							
1	5.	The nucleic acid of claim 1, wherein the immunoglobulin Fc region							
2	comprises a l	ninge region, a CH2 domain and a CH3 domain.							
1	6.	The nucleic acid of claim 5 wherein the immunoglobulin Fc region							
2	comprises a	portion of an immunoglobulin gamma sequence.							
1	7.	The nucleic acid of claim 6 wherein the immunoglobulin gamma is human							
2	immunoglob	ulin gamma1.							
1	8.	A replicable expression vector for transfecting a mammalian cell, the							
2	vector comp	rising the nucleic acid of claim 1.							

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- The replicable expression vector of claim 8 wherein the vector is a viral 1 9. 2 vector. 1
  - 10. A mammalian cell harboring the nucleic acid of claim 1.
- 11. A fusion protein comprising in an amino terminal to carboxy terminal 1 direction an immunoglobulin Fc region and a target protein comprising interferon-alpha. 2
- 12. The fusion protein of claim 11 wherein the interferon-alpha comprises an 1 amino acid sequence set forth in \$EQ. ID. NO.: 2, 7 or 8-21 or a species or allelic variant 2 thereof. 3
- 13. The fusion protein of claim 11 wherein the target protein comprises at 1 least two interferon-alpha molecules linked by a polypeptide linker. 2
- 1 14. The fusion protein of claim 13 further comprising a polypeptide linker linking the immunoglobulin Fc region to the target protein. 2
  - The fusion protein of claim 11 wherein the immunoglobulin Fc region 15. comprises an immunoglobulin hinge region and an immunoglobulin heavy chain constant region domain.
- 16. The fusion protein of claim 15 wherein the heavy chain constant region l 2 domain comprises a CH3 domain.
- 17. The fusion protein of claim 11 wherein the immunoglobulin Fc region 1 2 comprises a hinge region, a CH2 domain and a CH3 domain.
- 18. A multimeric protein comprising at least two fusion proteins of claim 11 1 linked via a covalent bond. 2
- 19. The protein of claim 18 wherein the covalent bond is a disulfide bond. ı
- A method of producing a fusion protein comprising the steps of: 20. 1
- 2 providing the mammalian cell of claim 10; and (a)

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3	(b)	culturing	the mammalian	cell to	produce	the fusion	protein.
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- 1 21. The method of claim 20 comprising the additional step of collecting the 2 fusion protein.
- The method of claim 20 comprising the additional step of purifying the fusion protein.
  - 23. The method of claim 20 comprising the additional step of cleaving with a proteolytic enzyme the immunoglobulin Fc region from the target protein at a proteolytic cleavage site disposed between the immunoglobulin Fc region and the target protein.
  - 24. A method of treating a condition alleviated by the administration of interferon-alpha comprising the step of administering the nucleic acid of claim 1 to a mammal having the condition.
  - 25. A method of treating a condition alleviated by the administration of interferon-alpha comprising the step of administering the vector of claim 8 to a mammal having the condition.
  - 26. A method of treating a condition alleviated by the administration of interferon-alpha comprising the step of administering the fusion protein of claim 11 to a mammal having the condition.
  - 27. A method of treating a condition alleviated by the administration of interferon-alpha comprising the step of administering protein of claim 18 to a mammal having the condition.
    - 28. The method of claim 26 wherein the condition is a liver disorder.
    - 29. The method of claim 28 wherein the liver disorder is hepatitis.

